## **Best**

[54]	TV MOVIES THAT TALK BACK				
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[58]					
[56]	References Cited				
	U.S. PATENT DOCUMENTS				
			Edson		

3,601,530	8/1971	Edson 179/1 CN
3,662,374	5/1972	Harrison et al 352/5
3,721,757	3/1973	Ettlinger 360/72.2
3,742,143	6/1973	Awipi 179/1 SD
3,747,087	7/1973	Harrison et al 358/93 X
3,778,058	12/1973	Rausch 340/725 X
3.825,674	7/1974	Justice 434/307 X
3,878,560	4/1975	Ramage 35/35 C
3,883,850	5/1975	Martin et al 179/1 SA X
3,928,724	12/1975	Byram et al 179/1 SD
3,939,579	2/1976	Andrews et al 434/316
3,943,295	3/1976	Martin 179/1 SA
3,946,157	3/1976	Dreyfus 179/1 SA
3,960,380	6/1976	Yokoi 273/311
3,974,482	8/1976	Balashov et al 364/900
3,987,484	10/1976	Bosche et al 434/307 X
4,016,540	4/1977	Hyatt 179/1 SM
4,059,841	11/1977	Bricot et al
4,060,915	12/1977	Conway
4,000,913	2/1978	Passavant et al 364/521 X
4,116,444	9/1978	Mayer et al 364/521 X
4,110,444	12/1978	Haessler et al
	6/1979	Sakoe et al
4,158,750	0/19/9	Sakue et al 179/1 SD

4,210,785 7/1980 Huber ...... 360/72.2 X

## OTHER PUBLICATIONS

Yasaki: Voice Recognition Comes of Age, Datamation, Aug. 1976, pp. 65-68.

Martin: One Way to Talk to Computers, IEEE Spectrum, May 1977, pp. 35-39.

Bagley et al.: Method for Computer Auimation of Lip Movements, IBM Technical Disclosure Bulletin, vol. 14, No. 10, Mar. 1972, pp. 3039–3040.

Cavanagh: Educational Institutional Features of the Optical Videodisc System, Journal of the SMPTE, vol. 86, Apr. 1977, pp. 201–203.

Wells; Random Selection and Brouching in the Godison Picture Audio Visual Field, Journal of the SMPTE, Nov. 1970, vol. 79, 983/990.

Suppes; The Use of Computers in Education Scientific American, vol. 215, Sep. 1966, pp. 207/220.

Kenney; Special Purpose Application of the Optical Video-Disc System, IEEE Transcription on Consumer Electronics, Nov. 1976, pp. 327-338.

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## [57] ABSTRACT

A video entertainment system by which human viewers conduct simulated voice conversations with screen actors or cartoon characters in a prerecorded branching movie shown on a television screen. The actors and cartoons reply responsively with lip-sync sound to words spoken by viewers. Different audio and video frames are addressed on a videodisc to provide one of several alternative replies or alternative actions at each branch point in the movie, depending on what the viewer says to a speech-recognition unit. A simple speech-recognition unit can be used because the number of words to be recognized at each branch point is restricted to just a few words. A menu of prompting words is displayed on a hand-held unit to inform viewers of what words they can use at each branch point. The prompting words are programmed to be phonetically distinct to be easily distinguishable from each other. Viewers can input questions or make other remarks by speaking a displayed code word which stands for a whole sentence. Pressing a button next to a sen-